

Sanitized Copy Approved for Release 2011/08/10 : CIA-RDP78-03642A000700100019-3

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Date 001359

*Supportive Material,
Delay Actuator Project*

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25X1
25X1

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25X1

This given is
but ideas not
accepted

25X1

This type of delay would not be any more accurate, % of variation, than the A.C. Delay at any one given temperature. However the present A.C. Delay is unreliable for long delays at 91°F and may be unsatisfactory at 59°F . A drop in temperature from 95°F to 77°F in the black impoule can change the timing as much as 200%, that is 10 days at 95°F and 30 days at 77°F . It is not felt that the proposed delay would change as greatly with temperature and should be ~~more~~ reliable at lower temperatures (32°F)

This proposal is only a feasibility study and the expense involved is not great compared to the need for a satisfactory long time delay.

Concerning this, the new MIT A.C. Delay does not appear to be capable of a delay longer than 45 days.

and

25X1

has

requested, via memo dated 17 Aug '59, ~~the~~ delays at 56 days 15 and 25, which

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It should be noted that this proposal is presented by the same company now conducting research & development on the RTD A.C. Delay. Those persons now working on the RTD A.C. Delay do believe that the attached proposal is sound.

None of the foregoing should be construed that the RTD A.C. Delay program is not succeeding satisfactorily. On the other hand it is proceeding even better than anticipated, and should result in a delay for underwater use and others, that is reliable, non-positional and accurate within 5-9% at any given temperature, at increments of 3, 6, 12, 24 hours and 3, 7, 14, 30, and 95 days (77°F)

Lastly and possibly most important there has always existed a need for a self-destructed, consumable delay for incendiary activation. Before proceeding on a program of redesigning the RTD A.C. Delay it would be desirable to realize the feasibility of the unit proposed. This unit with the exception of the spring lands

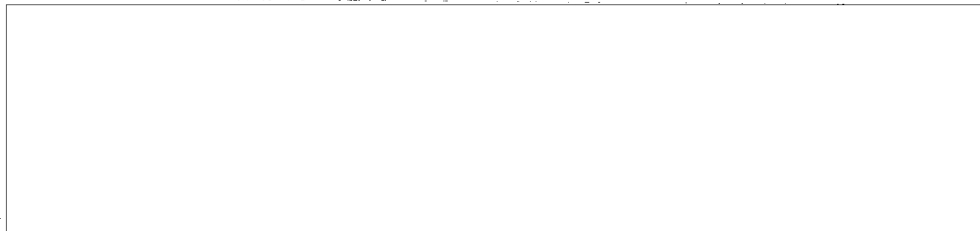
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*itself more readily than the
A. S. Delay to plastic construction.*

Very accurate,
Silicone

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Possible future manufactures for silicone
delay:



25X1

They do precision work on a production basis

Start clearance

Delay Activation
Silicone

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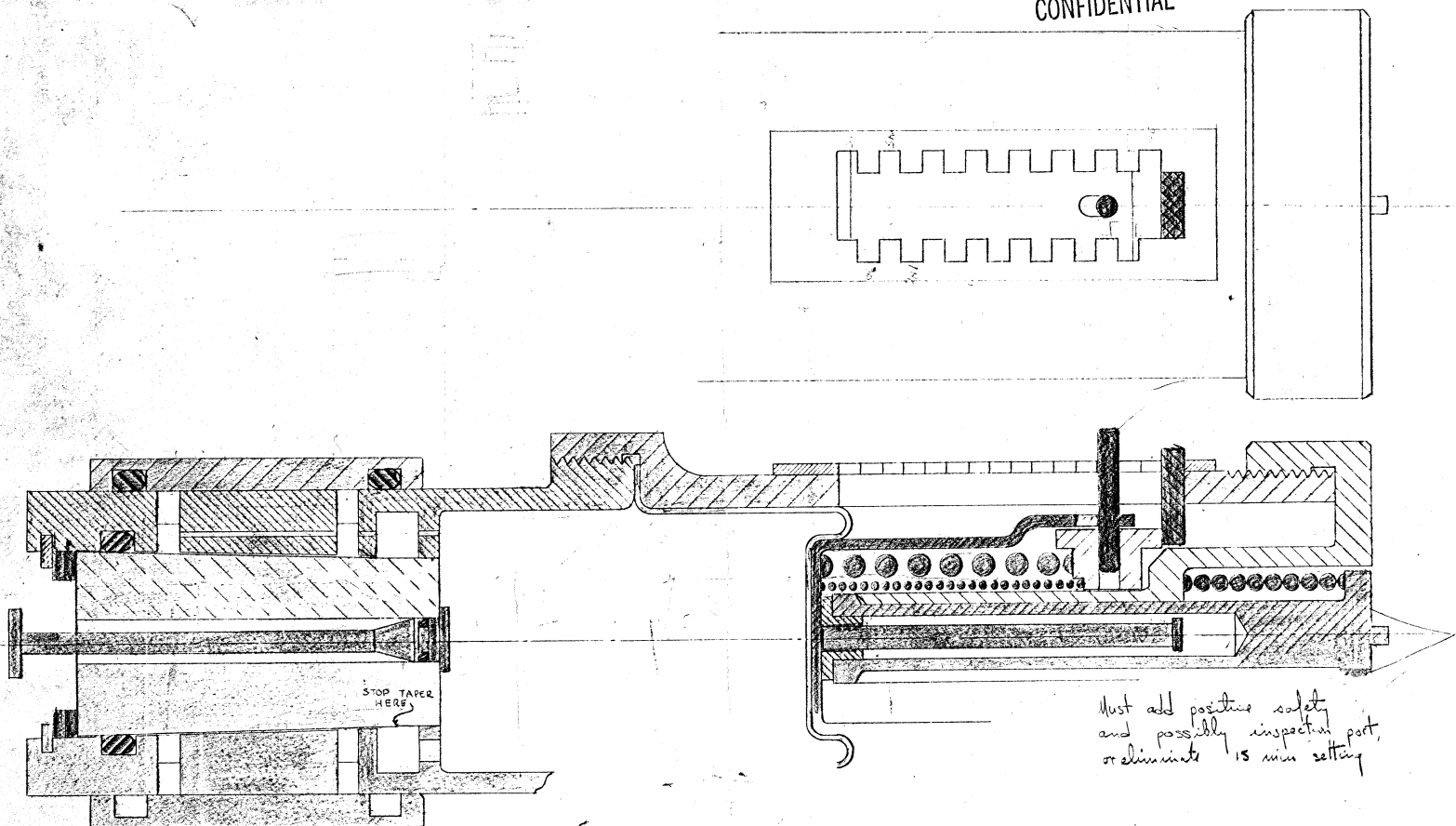
Silicones

Nontoxic

Dimethyl silicone fluids incompatible w/ rubber seals
insoluble in water but not impervious to
water vapor

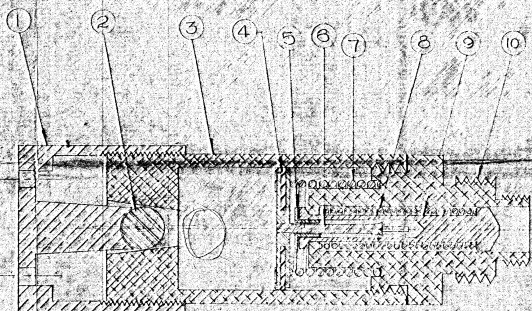
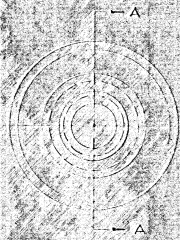
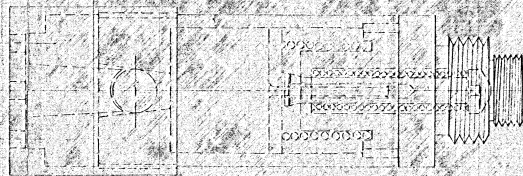
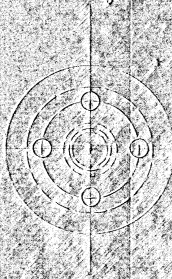
Soluble in gasoline & certain other solvents.

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CONFIDENTIAL SILICONE DELAY

21 Aug '58



SECTION "A-A"

PART NUMBER	QUANTITY REQ.	PART NAME	MATERIAL
10	1	ASSEMBLY	
9	1	FRONT PIN	
8	1	FRONT SPRING	
7	1	PISTON SPRING	
6	1	PISTON SHIRT	
5	1	RELEASE COIL	
4	1	PISTON	
3	1	BODY	
2	1	WATER BALL	
1	1	CAP	

DRAWN BY FW		APPROVED BY	
DATE 12 OCT 68		SCALE 2X	
NEXT ASSEMBLY		MODEL	

SILICONE
DELAY

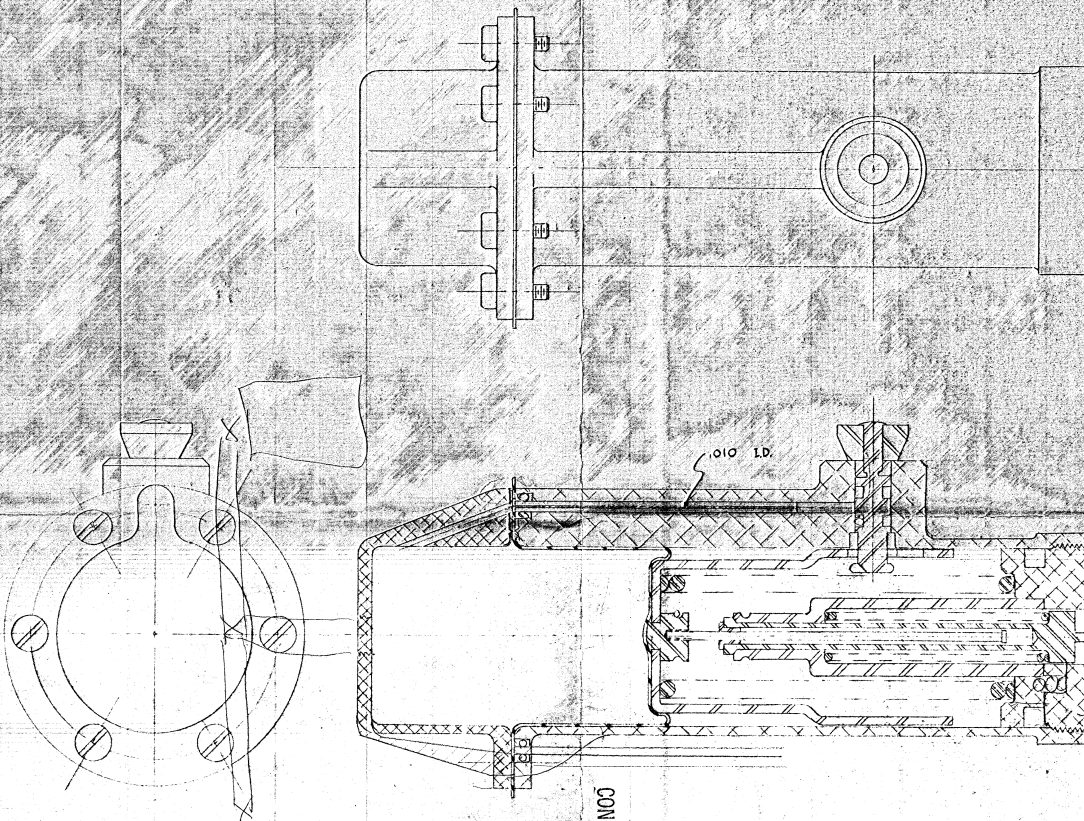
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NO.	DATE	REVISIONS	BY
1	12 OCT 68	1	FW

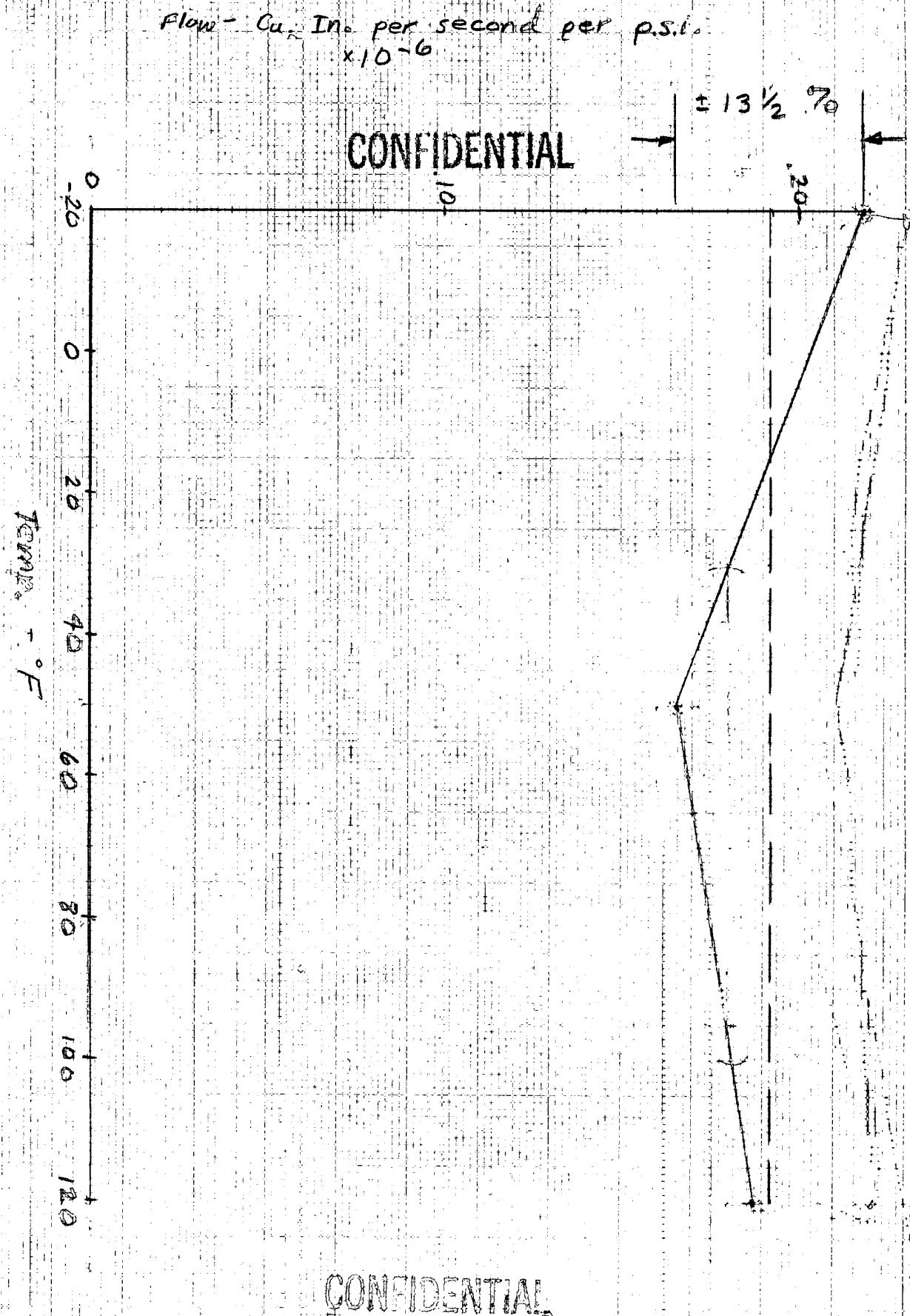
UNLESS SPECIFIED ALL TOLERANCES ARE:	FRACTIONS ±	DECIMALS ±	ANGLES ±

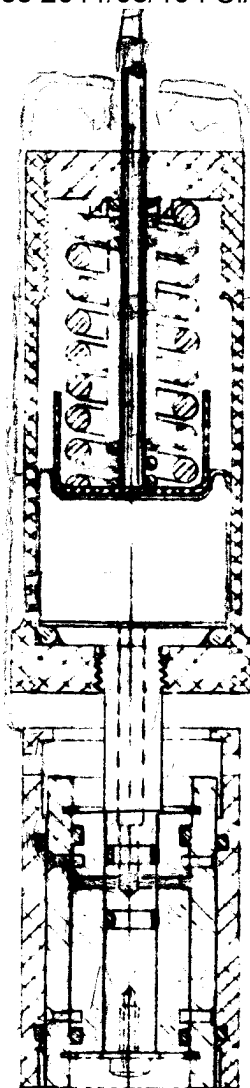
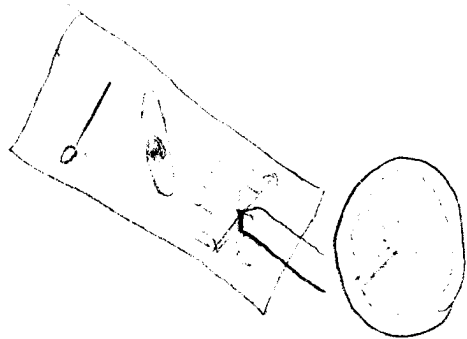
DWG. SIZE	DWG. NO.	ISSUE
11x17	1210-03-1	1

SHEET	OF	SHEETS
1	1	1



MATERIAL COMMERCIAL TOLERANCES APPLY				TITLE			
FRAG.	ANG.	SEC.	DEC.	NEXT ASSY.	NO.	REV.	
BY	DATE	CHKD	DATE	SCALE	ACCT. NO.	QWS. NO.	
G.R.	1/10/51	P.D.	4/1/51	2 X	2926-3909	0001	
ZONE	REV.	REVISIONS	BY	DATE	DIV.		

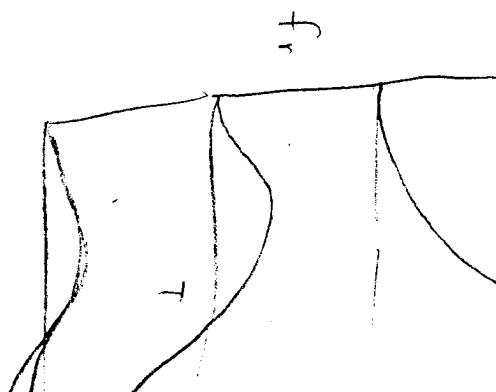




Delay Activator
Silicone Delay

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